

AUGUST 05-07

CALL FOR ABSTRACTS

SAMD
SYMPOSIUM

2025 Space & Missile Defense Symposium Technology Track

Abstracts are due May 30, 2025 and final briefings are due July 16, 2025

Modeling & Simulation/Digital Engineering

Space and missile defense systems are crucial for safeguarding the United States and protecting our nation's security interests. There is a growing need for innovative modeling and simulation approaches to enhance the effectiveness and efficiency of these systems as technologies evolve.

Abstracts are encouraged that address: Advanced modeling techniques, simulation-based evaluation of missile defense strategies, multi-sensor fusion for enhanced threat detection, performance analysis and optimization of missile defense systems, missile threats, human factors and decision support in missile defense operations, validation and verification of missile defense models, and case studies and practical applications of missile defense simulation.

Artificial Intelligence in Space and Missile Defense

The rapid emergence of Artificial Intelligence (AI) and Machine Learning (ML) based methodologies offers a tremendous opportunity for the United States to maintain and extend our competitive edge in space and missile defense applications. Advancing the nation's capabilities in AI/ML to ensure that solutions are robust, secure, and accurate is critical and depends on innovations in many key areas.

Abstracts are encouraged that address: Data Collection and Generation, Algorithms and Architectures, Testing, System Development, Cyber Resiliency, and other related topics, which discuss methods, technologies, and processes that facilitate development of novel AI/ML solutions or improve systems. Case studies involving validation and verification in simulated, benchtop, or real-world environments and methods to review new technologies are also desired.

SMD Technologies – Author's Choice

Each year, potential authors submit abstracts outside the posted Call for Paper topics based on their current research and development or particular personal interest. Unfortunately, time limitations usually prevent these abstracts from consideration and presentation. For 2025, in addition to the specific Cyber Resilience & Artificial Intelligence/Machine Learning topic, the Technology Committee encourages abstracts relevant to Space and Missile Defense Technologies that leverage the creativity of our community and provide insight into their own interests.

AUGUST 05-07

CALL FOR ABSTRACTS

SMD
SYMPOSIUM

2025 Space & Missile Defense Symposium Technology Track

Abstracts are due May 30, 2025 and final briefings are due July 16, 2025

Criteria & Submission

- Abstracts submitted outside of the submission period will not be reviewed or considered. All submission sections must be complete to be considered.
- Selection for this Symposium is based on an Abstract of no more than 2 pages describing the proposed technical briefing. The Abstract must describe the basis of the work and include sufficient detail to allow evaluation of the work. No exceptions will be made. For those topics selected for presentation, a 20-minute PowerPoint briefing will be prepared and presented as part of the Symposium Technology Track.
- Submissions cannot be used to advertise or advocate for a specific commercial solution.
- Abstracts must be original, new or materially evolved work, based on the latest advancements in each topic area.
- All abstracts and presentation material must be approved for public release by the author's respective organization. No submissions can contain Controlled Unclassified Information (CUI) or classified information.
- Abstracts and presentation materials will not be provided or distributed outside of the selection committee and Symposium AV team.
- Only abstracts in PDF format will be accepted.
- Submitters are not permitted to re-submit abstracts previously submitted to SMD, whether they were accepted or not. Submissions can be similar to past submissions but **MUST** be significantly updated to include new data or new content.
- There is a limit of up to 2 abstract submissions per presenting author.
- Submissions are limited to a total of 4 authors. Submissions must have at least 1 but no more than 2 presenting authors. Submissions may have up to 3 non-presenting authors if the total number of authors does not exceed 4.
- All accepted submissions will be presented in-person in Huntsville, AL. Do not submit an abstract if you already know you will not be able to present in-person during the conference dates.
- One presenter of accepted abstracts will receive a free registration after all presentation materials have been submitted and approved.

Prospective authors are asked to submit their work or questions electronically to justin.scharber@cf-d-research.com prior to the posted deadlines.